

IR-2281 (2-3807)

TEMPERATURE COMPENSATED BANDGAP VOLTAGE REFERENCE

ABSTRACT OF THE DISCLOSURE

5 A bandgap voltage reference circuit comprising a first circuit providing a first
voltage substantially proportional to V_{be} of a first bipolar transistor, a second circuit
providing a second voltage ΔV_{be} substantially proportional to the difference of two V_{be}
voltages of two bipolar transistors, and a comparator having respective inputs coupled
to V_{be} and ΔV_{be} and an output coupled to the base of the first bipolar transistor whereby
10 a voltage substantially proportional to the sum of respective constants multiplying V_{be}
and ΔV_{be} is provided at the output of the comparator.